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ABSTRACT

The purpose of this study was to compare the academic progress of junior college transfers, 4-year college transfers, and continuous juniors (natives) at the University of Illinois as measured by grade point average (GPA), academic status and continued enrollment through the first year after transfer. A secondary purpose was to compare the performance before and after transfer on the basis of mean GPA. The three student groups were also compared in 12 subject matter areas on the basis of mean GPA during the 1970-71 academic year. Some conclusions were: (1) the junior college transfers entered with a higher mean GPA than did the 4-year college transfers or native juniors; (2) the 4-year college transfers and the native juniors achieved similar mean GPAs during the first and second terms--both were higher than that earned by the junior college transfers; (3) the proportion of 4-year college transfer students who withdrew during both semesters was higher than the proportion of the other two groups; (4) the junior college group had the lowest retention ratio (82%) while the continuous juniors had the highest retention ratio (88%); and (5) junior college transfers earned the lowest mean GPA in 10 of the 12 subject areas studied. (Author/RN)

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Comparison of Transfer and Native Student Progress at the University of Illinois at Urbana-Champaign 1970-71 Academic Year

by

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Comparison of Transfer and Native Student Progress

at the University of Illinois at Urbana-Champaign

1970-71 Academic Year

Purpose

The purpose of this study is to compare the academic progress of junior college transfers, four-year college transfers, and continuous juniors at the University of Illinois as measured by grade-point average, academic status and continued enrollment through the first year after transfer. A secondary purpose is to compare the performance before transfer with performance after transfer on the basis of mean grade-point average. In addition, junior college transfers, four-year college transfers and continuous juniors (natives) are compared in twelve subject matter areas on the basis of mean grade-point average during the 1970-71 academic year.

Method

Three groups of students are included in this study. Junior college transfers include all of the new and readmitted students to the University of Illinois at Urbana-Champaign for the Fall term of 1970 who had completed twelve or more semester credit hours before transfer and whose institution of last attendance was a junior college. Four-year college transfers include all new and readmitted transfer students who had completed twelve or more semester hours of credit and whose institution of last attendance before transfer was a four-year college or university. The native students include all 1970 continuing juniors who entered as beginning freshmen at the University of Illinois at Urbana-Champaign and had completed more than 60 and less than 90 semester hours of college credit.

The groups include 425 junior college transfers, 659 four-year college transfers, and 4,039 continuous juniors (natives).

First Semester Success

Table 1 shows a summary of transfer and native student progress for the three groups of students included in the study during the two-semester period of 1970-71. Four hundred twenty-five junior college transfers entered in the Fall of 1970 with a pre-transfer grade-point average of 3.94. The junior college group achieved a 3.55 mean first term G.P.A. which is .39 less than the same students achieved before entering the University. This drop in mean grade-point average is very similar to the .37 found for the 1969 junior college group but is less than the .52 found for the Fall 1968 junior college transfers. In contrast, 659 four-year college transfers entered with a pre-transfer grade-point average of 3.88 and achieved a mean first term grade-point average of 3.95 which is .07 higher than the mean pre-transfer G.P.A. for the same students before they transferred to the University of Illinois. Four thousand thirty-nine continuous juniors achieved a 3.88 grade-point average during the first two years at the University of Illinois. This group achieved a 3.98 grade-point average during the first term of the junior year, which is .10 higher than the mean grade-point average during the first two-year period of college.

Data presented in Columns 2, 3, and 4 of Table 1 indicate that junior college transfers entered with a higher grade-point average than the four-year college transfers (3.94 vs. 3.88), but the four-year college transfers achieved a higher grade-point average during the first term than the junior college transfers (3.95 vs. 3.55). The performance of the four-year college transfers during the first two years before transfer is identical (3.88) to that of the continuous juniors at the University of Illinois, and their performance after transfer is very similar (3.95 vs. 3.98). If conditions

Table 1

Summary of Transfer and Native Student Progress
University of Illinois at Urbana-Champaign
Fall 1970 Group

Semester (1)	Junior College (2)	Four-Year College (3)	Continuous (Native) Juniors (4)
Fall Semester			
Number of Transfers	425	659	4039
Mean Pre-Transfer GPA	3.94	3.88	3.88
Mean First Term GPA	3.55	3.95	3.98
Change in Mean GPA	-.39	+.07	+.10
Status:			
Clear	301 (71%)	545 (83%)	3619 (90%)
Probation	102 (24%)	74 (11%)	295 (7%)
Dropped	13 (3%)	11 (2%)	41 (1%)
Withdrew	9 (2%)	29 (4%)	84 (2%)
Retention Ratio*	95%	94%	97%
Spring Semester			
Number of Transfers Re-Enrolled	392	625	3893
Mean Pre-Transfer GPA	3.97	3.89	3.92
Mean Second Term GPA	3.69	4.04	4.08
Change in Mean GPA	-.28	+.15	+.16
Increase in Mean GPA Over First Term	.14	.09	.10
Status:			
Graduated	1 (0%)	32 (5%)	112 (3%)
Clear	291 (74%)	471 (75%)	3245 (83%)
Probation	57 (15%)	48 (8%)	204 (5%)
Dropped	20 (5%)	11 (2%)	35 (1%)
Withdrew	23 (6%)	63 (10%)	297 (8%)
Retention Ratio*	82%	84%	88%

*Retention Ratio: The proportion of total transfers enrolled in the Fall term who graduated or completed the term on clear or probation status and re-enrolled for the following semester.

remain approximately the same, it can be inferred that the four-year college transfer group and the native junior group are likely to achieve a first term grade-point average equal to or slightly higher than that achieved before transfer or during the first two years at the University of Illinois. In addition, it is likely that the grade-point average achieved by four-year college transfers and continuous natives is likely to be higher than that achieved by junior college transfers with equivalent pre-transfer grade-point averages.

At the end of the first term, the native juniors had the highest proportion of students on clear status (90 percent) followed by the four-year college transfers (83 percent) with the junior college group having the lowest proportion (71 percent) on clear status. The junior college group had the highest percentage on probation (24 percent) while less than half of that proportion of the four-year college transfers (11 percent) were on probation and only 7 percent of the native juniors were in that category. Even though a very small percentage of any of the groups was dropped for academic reasons, the junior college transfers show the highest proportion (3 percent) and the four-year college group had 2 percent and the native juniors 1 percent. Students who officially withdrew during the semester or failed to re-enroll for the following semester while on clear or probationary status amounted to 2 percent of the junior college transfers and the native juniors and 4 percent for the four-year college transfers. At the end of the Fall semester, 95 percent of the junior college transfers, 94 percent of the four-year college transfers, and 97 percent of the continuous juniors had completed the first semester on clear or probationary status and re-enrolled for the second semester. Even though the junior college student entered the University with a higher pre-transfer grade-point average than four-year college transfers or natives and achieved a lower

first term mean grade-point average, the junior college transfer group was just as persistent as the four-year college transfer group when evaluated by the total proportion of students who re-enrolled on clear and probationary status for the second semester. The native juniors were the most persistent of the three groups at the end of one semester with a retention ratio of 97 percent.

Progress One Year After Transfer

The success of junior college transfers, four-year college transfers and native juniors who returned for the Spring semester is shown for each of the groups in Table 1. All three groups who re-enrolled for the second semester had achieved a pre-transfer lower division grade-point average slightly higher than the pre-transfer grade-point average achieved for all of the students in their group at the beginning of the Fall semester. The difference between the pre-transfer or lower division (for natives) grade-point average and the mean second term grade-point average for the groups is -.28 for the junior college transfers, +.15 for the four-year college transfers, and +.16 for the native juniors. This pattern of differences is similar to that found for the 1968 and 1969 transfer groups. A comparison of the first term and second term G.P.A.'s is shown for each of the three groups in Table 1 as "Increase in Mean G.P.A. Over First Term." The junior college group increased the mean second term G.P.A. by .14 while the four-year college group increased by .09 and the native juniors increased .10. Some of the increase may be due to the fact that those students returning for the second semester were higher achievers than the total group present for the fall. These data demonstrate that the junior college group recovered some of the loss in mean G.P.A. during the second semester, but the group did not achieve at a level equivalent to the four-year college transfers or native juniors. Neither do the junior college transfers who remain after one semester achieve a mean G.P.A. equivalent to their pre-transfer G.P.A.

Academic Status

One year after transfer, approximately 5 percent of the four-year college transfers and 3 percent of the native juniors had graduated while approximately 75 percent of both transfer groups who returned for the second semester were on clear status and 83 percent of the native juniors were in that category. Following the second semester, 15 percent of the junior college transfers were placed on probation while only 8 percent of the four-year college transfers were in that category. Approximately 5 percent of the junior college transfers were dropped at the end of one academic year, while only 2 percent of the four-year college transfers were in that category and only 1 percent of the native juniors. Ten percent of the four-year college transfers and 8 percent of the continuous juniors officially withdrew during the second semester or failed to return for the Fall term of 1971 on clear or probationary status, while only 6 percent of the junior college group were in that category.

Retention Ratio

The retention ratio was calculated for each of the three groups and is shown in Table 1. This ratio is based on the proportion of total transfers enrolled in the Fall term who graduated or completed the term on clear or probationary status and re-enrolled for the following semester. For example, the four-year college transfer group shows a retention ratio of 84 percent of the 659 students who transferred in the Fall of 1970. This is calculated by summing the 32 graduated, 471 on clear status and 48 on probationary status and dividing by the 659 total transfers enrolled in the Fall of 1970. The junior college group had the lowest retention ratio (82 percent) while the continuous juniors had the highest (88 percent) retention ratio.

Comparison by Subject Areas

Table 2 presents data on transfer and native student academic achievement in twelve subject areas for the first and second semesters of the 1970-71 academic year. Analysis of the grade-point averages achieved at the University of Illinois by the three groups in each of twelve subject areas is shown for the first and second semesters of 1970.

Rank ordering the subject area grade-point averages by group shows that the junior college transfers achieved a lower mean grade-point average in all twelve subject areas than either the four-year college transfers or the native juniors during the first semester. The native juniors have the highest grade-point average in six of the subject areas: biological science, business and commerce, mathematics, physical science, agriculture and home economics; while the four-year college transfers ranked highest in six areas: English, foreign languages, social sciences, engineering, art and architecture, and education.

Similar analysis for the second semester of 1971 shows that the junior college transfers received the lowest mean grade-point average in ten of the twelve areas studied. However, in the areas of art and architecture and home economics the junior college group ranks second among the three groups. The four-year transfers ranked lowest in the area of home economics of the three transfer groups. However, since no tests of significant differences were performed on these data, the writer is unable to specify the probability that these differences may be explained by chance.

Institutional Differences

The number, grade-point average and academic status of transfer students and native juniors is presented for each of the Illinois junior colleges who sent transfer students to the University of Illinois at Urbana-Champaign for the Fall semester of 1970 in Appendices A and B. Appendix A reports data

Table 2

Comparison of Transfer and Native Student
Academic Achievement by Subject Area
University of Illinois at Urbana-Champaign
Fall 1970 Group

Subject Area (1)	Junior College Transfers Mean GPA (2)	Rank (3)	Four-Year College Transfers Mean GPA (4)	Rank (5)	Continuous Juniors (Natives) Mean GPA (6)	Rank (7)
First Semester (Fall '70)						
Biological Science	3.62	(3)	3.92	(2)	4.09	(1)
Business & Commerce	3.59	(3)	3.67	(2)	3.79	(1)
English	3.76	(3)	4.20	(1)	4.09	(2)
Foreign Languages	3.60	(3)	3.99	(1)	3.95	(2)
Mathematics	2.99	(3)	3.43	(2)	3.64	(1)
Physical Sciences	3.36	(3)	3.76	(2)	3.87	(1)
Social Sciences	3.57	(3)	4.07	(1)	4.04	(2)
Agriculture	3.67	(3)	3.84	(2)	3.97	(1)
Engineering	3.78	(3)	4.00	(1)	3.99	(2)
Art & Architecture	3.94	(3)	4.16	(1)	4.10	(2)
Education	4.46	(3)	4.60	(1)	4.59	(2)
Home Economics	3.17	(3)	3.90	(2)	3.94	(1)
All Courses	3.55	(3)	3.95	(2)	3.98	(1)
Second Semester (Spring '71)						
Biological Science	3.77	(3)	4.02	(2)	4.11	(1)
Business & Commerce	3.62	(3)	3.77	(2)	3.85	(1)
English	3.98	(3)	4.21	(1)	4.20	(2)
Foreign Languages	3.73	(3)	3.91	(2)	4.17	(1)
Mathematics	3.16	(3)	3.49	(2)	3.83	(1)
Physical Sciences	3.40	(3)	3.76	(2)	3.90	(1)
Social Sciences	3.75	(3)	4.18	(1)	4.10	(2)
Agriculture	3.72	(3)	4.30	(1)	4.16	(2)
Engineering	3.78	(3)	3.96	(2)	4.11	(1)
Art & Architecture	4.24	(2)	4.30	(1)	4.10	(3)
Education	4.56	(3)	4.62	(1)	4.58	(2)
Home Economics	4.00	(2)	3.97	(3)	4.04	(1)
All Courses	3.69	(3)	4.04	(2)	4.08	(1)

for the 1970 Fall semester, and Appendix B reports comparable data for those who re-enrolled for the Spring semester of 1971. Column 5 of Appendix A shows that the mean drop for all junior college transfers in first term G.P.A., compared with pre-transfer G.P.A., is .39. Analysis of column 5 shows that institutional averages vary from an increase of .12 for 13 students at one college to a decrease of .81 for one institution with 10 or more students. It is clear from these data that observed differences exist in the achievement after transfer for transfer groups from different junior colleges. Institutional data are not available for four-year college transfers.

Summary

The junior college transfers entered with a higher mean pre-transfer grade-point average than did the four-year college transfers or native juniors. The four-year college transfers and the native juniors achieved a higher mean grade-point average during the first and second terms than did the junior college transfers. The performances of four-year college and native juniors during the first and second terms is very similar as measured by mean G.P.A. The native juniors and the four-year college transfers had a higher proportion of students on clear status at the end of the first semester than did the junior college group, and the native juniors had a higher proportion in this category at the end of the second semester. The proportion of four-year college transfer students who withdrew was higher during both the first semester and second semester than the proportion who withdrew from the junior college group or the native juniors. One year after transfer, 82 percent of the junior college transfers had graduated or were re-enrolled on clear or probationary status while 84 percent of the four-year college group and 88 percent of the native juniors were in those three categories. No evidence is available in this study to indicate what factors contributed to this increased withdrawal rate from the four-year college group.

Appendix A

Number, Grade Point Average and Academic Status of Transfer Students and Native Juniors
University of Illinois at Urbana-Champaign
Fall Semester, 1970

College Code (1)	Number Fall 1970 Transfer Students (2)	Mean Pre-Transfer GPA (3)	Mean First Term (1970) GPA (4)	Drop in Mean GPA (5)	Academic Status (Percent)[1] Clear (6)	Pro (7)	Dropped (8)	With (9)	Retention Ratio[2] (10)
01	12	3.86	3.51	.35	67%	33%			1.00
02	18	3.96	3.70	.26	78	17		5	.95
03	16	3.73	3.43	.30	56	38	6		.94
04	5	3.75	3.29	.46	40	60			1.00
05	8	4.25	3.66	.59	75	25			1.00
07	2	3.45	3.29	.16	50	50			1.00
08	1	3.95	2.00	1.95		100			1.00
10	2	3.91	3.61	.30	50	50			1.00
11	4	3.78	3.28	.50	50	50			1.00
12	1	4.59	4.00	.59	100				1.00
13	10	4.15	3.45	.70	70	10	20		.80
14	35	4.12	3.70	.42	80	14	6		.94
15	10	3.87	3.06	.81	50	50			1.00
16	9	3.73	3.48	.25	89	11			1.00
17	24	3.91	3.40	.51	74	17		9	.91
18	32	3.96	3.77	.19	78	19		3	.97
19	18	3.99	3.55	.44	67	21	6	6	.88
20	3	3.41	3.04	.37	100				1.00
21	6	4.69	4.36	.33	100				1.00
22	3	4.19	3.92	.27	67	33			1.00
23	8	3.91	3.73	.18	100				1.00
24	4	4.37	3.67	.70	50	50			1.00
25	4	4.17	3.36	.81	75		25		.75
26	13	3.77	3.89	+.12	92	8			1.00
27	5	4.10	3.92	.18	80	20			1.00

[1]Academic Status: Percents are based on the number of transfer students enrolled in the Fall, 1970 term (column 2)

[2]Retention Ratio = The proportion of total transfers enrolled in the Fall term who re-enrolled on clear or probationary status for the next semester.

Appendix A (Cont.)

Number, Grade Point Average and Academic Status of Transfer Students and Native Junior
University of Illinois at Urbana-Champaign
Fall Semester, 1970

College Code (1)	Number Fall 1970 Transfer Students (2)	Mean Pre-Transfer GPA (3)	Mean First Term (1970) GPA (4)	Drop in Mean GPA (5)	Academic Status (Percent)[1] Clear (6)	Pro (7)	Dropped (8)	With (9)	Retention Ratio[2] (10)
28	15	3.89	3.34	.55	60%	40%			1.00
29	13	4.05	3.85	.20	69	23		8	.92
30	4	3.62	3.00	.62	50	50			1.00
31	58	3.95	3.51	.44	67	28	3	2	.95
32	12	3.77	3.60	.17	59	33	8		.92
33	3	3.79	3.12	.67	67	33			1.00
34	7	3.62	2.87	.75	42	29	29		.71
35	7	3.78	3.38	.40	57	14		29	.71
36	3	3.58	3.22	.36	67	33			1.00
37	1	3.80	3.33	.47	100				1.00
38	3	4.04	3.18	.86	34	33	33		.67
39	6	3.88	3.68	.20	83	17			1.00
42	1	4.72	4.44	.28	100				1.00
43	1	3.72	3.00	.72	100				1.00
(Private)									
51	2	3.98	2.86	1.12		100			1.00
54	1	3.47	3.33	.14	100				1.00
55	1	4.03	2.07	1.96		100			1.00
56	1	4.11	3.57	.54	100				1.00
58	19	4.10	3.79	.31	89	11			1.00
71	4	3.51	2.57	.94	25	75	—	—	1.00
All Junior Colleges	425	3.94	3.55	.39	71%	24%	3%	2%	.95%
All Non-Junior College Transfers	659	3.88	3.95	+.07	83%	11%	2%	4%	.94%
All Continuous Juniors at Urbana	4039	3.88	3.98	+.10	90%	7%	1%	2%	.97%

Appendix B

Number, Grade Point Average and Academic Status of Fall 1970 Transfer Students and Native Juniors
University of Illinois at Urbana-Champaign
Spring Semester, 1971

College Code (1)	Number Fall 1970 Transfer Students (2)	Number Re-Enrolled for Spring 1971 (3)	Mean Pre-Transfer GPA (4)	Mean Second Term GPA (5)	Drop in Mean GPA (6)	Increase in Mean GPA Over First Term (7)	Academic Status (Percent)[1] Clear (8)	Pro (9)	Drop (10)	With (11)	Grad[2] (12)	Re-tention Ratio[3] (13)
01	12	10	3.92	3.39	.53	-.12	70%	10%		20%		.67
02	18	17	3.95	3.99	+.04	.29	82	12		6		.89
03	16	14	3.73	4.15	+.42	.72	93		7			.81
04	5	5	3.75	3.19	.56	-.10	60	40				1.00
05	8	8	4.25	3.48	.77	-.18	75	12	13			.88
07	2	2	3.45	3.42	.03	.13	50		50			.50
08	1	0	--	--	--	--						--
10	2	2	3.91	3.50	.41	-.11	50			50		.50
11	4	4	3.78	3.71	.07	.43	100					1.00
12	1	1	4.59	3.93	.66	-.07	100					1.00
13	10	8	4.20	3.66	.54	.21	75	25				.80
14	35	31	4.19	3.84	.35	.14	81	10	3	6		.80
15	10	10	3.87	3.28	.59	.22	70	10	20			.80
16	9	9	3.73	3.61	.12	.13	100					1.00
17	24	22	3.88	3.54	.34	.14	77	13	5	5		.83
18	32	30	3.97	3.88	.09	.11	84	13		3		.91
19	18	14	4.32	3.28	1.04	-.27	50	43		7		.72
20	3	3	3.41	3.34	.07	.30	67		33			.67
21	6	6	4.68	4.08	.60	-.28	83	17				1.00
22	3	3	4.19	3.70	.49	-.22	34		33	33		.33
23	8	8	3.91	3.61	.30	-.12	75	25				1.00
24	4	4	4.37	3.78	.59	.11	75	25				1.00
25	4	3	4.47	4.42	.05	1.06	100					.75
26	13	13	3.84	4.06	+.22	.17	84	8			8	1.00
27	5	5	4.10	3.81	.29	-.11	80	20				1.00

[1]Academic Status: The percentages are based on the number of students enrolled in Spring 1971 term.

[2]Graduated: This includes graduates at end of summer term.

[3]Retention Ratio: This is based on original Fall 1970 enrollment (column 2).

[4]Less than 1%.

Appendix B (Cont.)

Number, Grade Point Average and Academic Status of Fall 1970 Transfer Students and Native Juniors
University of Illinois at Urbana-Champaign
Spring Semester, 1971

College Code (1)	Number Fall 1970 Transfer Students (2)	Number Re-Enrolled For Spring 1971 (3)	Mean Pre-Transfer GPA (4)	Mean Second Term GPA (5)	Drop In Mean GPA (6)	Increase In Mean GPA Over First Term (7)	Academic Status (Percent)[1] Clear (8)	Pro (9)	Drop (10)	With (11)	Grad[2] (12)	Re-tention Ratio[3] (13)
28	15	15	3.89	3.43	.46	.09	46%	40%	7%	7%		.87
29	13	12	4.04	3.72	.32	-.13	67	25	8			.85
30	4	4	3.62	2.54	1.08	-.46	50		50			.50
31	58	53	3.96	3.79	.17	.28	72	13	4	11		.78
32	12	11	3.78	3.56	.22	-.04	73	18	9			.83
33	3	3	3.79	3.86	+.07	.74	100					1.00
34	7	5	3.78	2.83	.95	-.04	60	20	20			.57
35	7	5	3.83	3.95	+.12	.57	80			20		.57
36	3	3	3.58	3.61	+.03	.39	100					1.00
37	1	1	3.80	3.41	.39	.08	100					1.00
38	3	2	4.06	3.86	.20	.68	50	50				.67
39	6	6	3.88	3.78	.10	.10	83	17				1.00
42	1	1	4.72	4.44	.28	.00	100					1.00
43	1	1	3.72	3.00	.72	.00	100					1.00
(Private)												
51	2	2	3.98	3.36	.62	.50	50	50				1.00
54	1	1	3.51	2.93	.58	-.40		100				1.00
55	1	0	--	--	--	--						--
56	1	1	4.11	4.31	+.20	.74	100					1.00
63	19	19	4.09	3.76	.33	-.03	79	5	5	11		.84
71	4	4	3.51	2.39	1.12	-.18	25	25	50			.50
(Out-of-state)												
99	10	10	3.73	4.04	+.31	.13	60	10		30		.70
All Junior Colleges												
	425	392	3.97	3.69	.28	.14	74%	15%	5%	6%	0%[4]	.82
All Non-Junior College Transfers												
	659	625	3.89	4.04	+.15	.09	75%	8%	2%	10%	5%	.84
All Continuous Juniors												
	4039	3893	3.92	4.08	+.16	.10	83%	5%	1%	8%	3%	.88